

Title (en)

Power system stabilizer for generator

Title (de)

Leistungssystemstabilisierung für einen Generator

Title (fr)

Stabilisateur de système d'alimentation pour générateur

Publication

**EP 0713287 A1 19960522 (EN)**

Application

**EP 95117995 A 19951115**

Priority

- JP 30424694 A 19941115
- JP 31610594 A 19941128

Abstract (en)

To improve the resistance against external low-frequency disturbance (represented by generator output change), the power system stabilizer for a generator, for inputting a voltage regulating signal (e), as an auxiliary signal, to an automatic voltage regulator (3) to control a generator terminal voltage at a target voltage (Vo), comprises: an angular acceleration observer (1) for calculating an estimated angular acceleration change rate ( DELTA as) of the generator on the basis of at least one of stabilizing signal change rates ( DELTA P and/or DELTA omega ) of the generator; and a power stabilizer circuit (2) for calculating a corrected voltage regulating signal (e) applied to the automatic voltage regulator (3) on the basis of the estimated angular acceleration change rate value ( DELTA as) calculated by the angular acceleration observer (1). Further, it is preferable to provide a plurality of observers and a plurality of power stabilizer circuits, separately for each fluctuation frequency. <IMAGE>

IPC 1-7

**H02P 9/10**

IPC 8 full level

**H02P 9/10** (2006.01)

CPC (source: EP KR US)

**H02P 9/10** (2013.01 - KR); **H02P 9/105** (2013.01 - EP US)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 46 (E - 711) 2 February 1989 (1989-02-02)
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DOCDB simple family (application)

**EP 95117995 A 19951115**; CN 95118862 A 19951114; DE 69504457 T 19951115; KR 19950041439 A 19951115; US 55948695 A 19951115